



SCO

UnixWare® 7 NonStop Clusters® Installation

Transparency Masters

Course Release: 1.0

For Software: UnixWare® 7 NonStop® Clusters 7.1.1

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NonStop Cluster Hardware and Software Installation

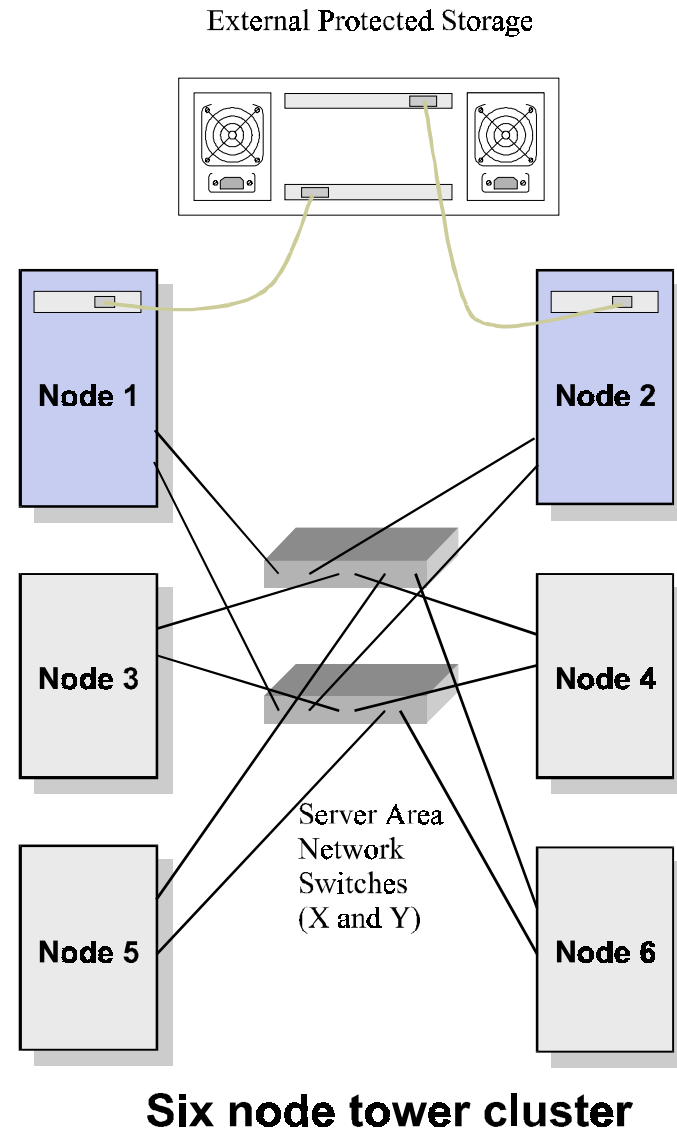
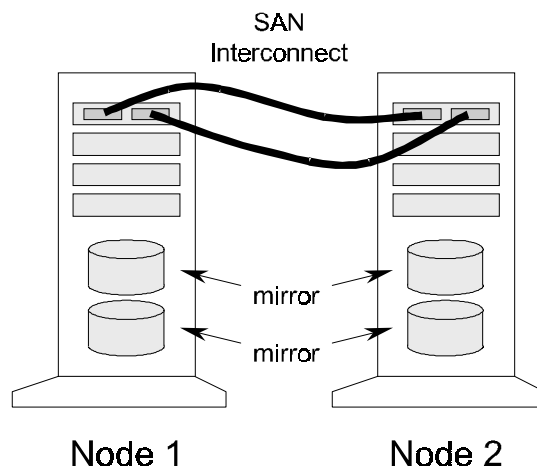
- Introduction
- General Tips for Building a Cluster
- Assembling Cluster Hardware
- Installing UnixWare 7.1 on the Initial Root Node
- Installing NSC Software on the Initial Root Node
- Installing Dependent Nodes

General Tips for Building a Cluster

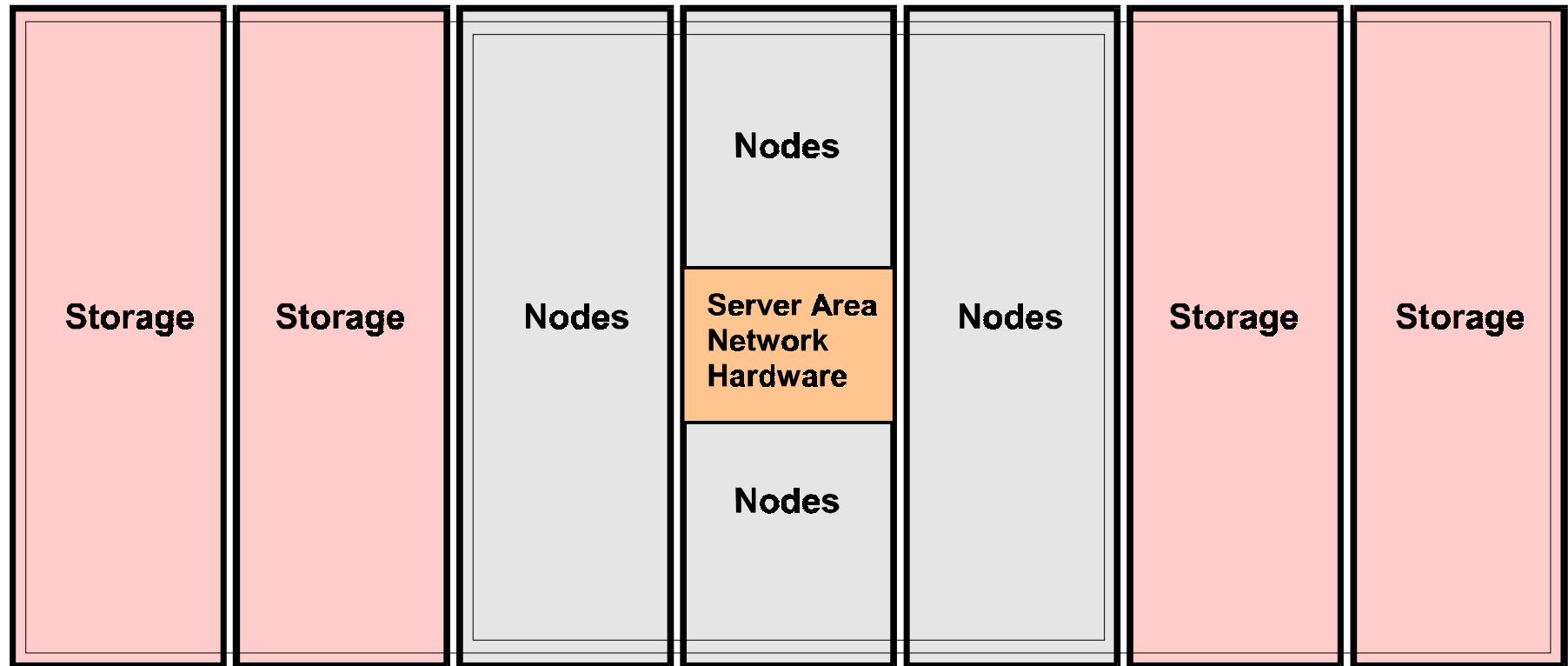
- Tower and Rack Installations
- Cabel Labeling
- Rack Loading
- Site Planning

Example Tower Cluster Configurations

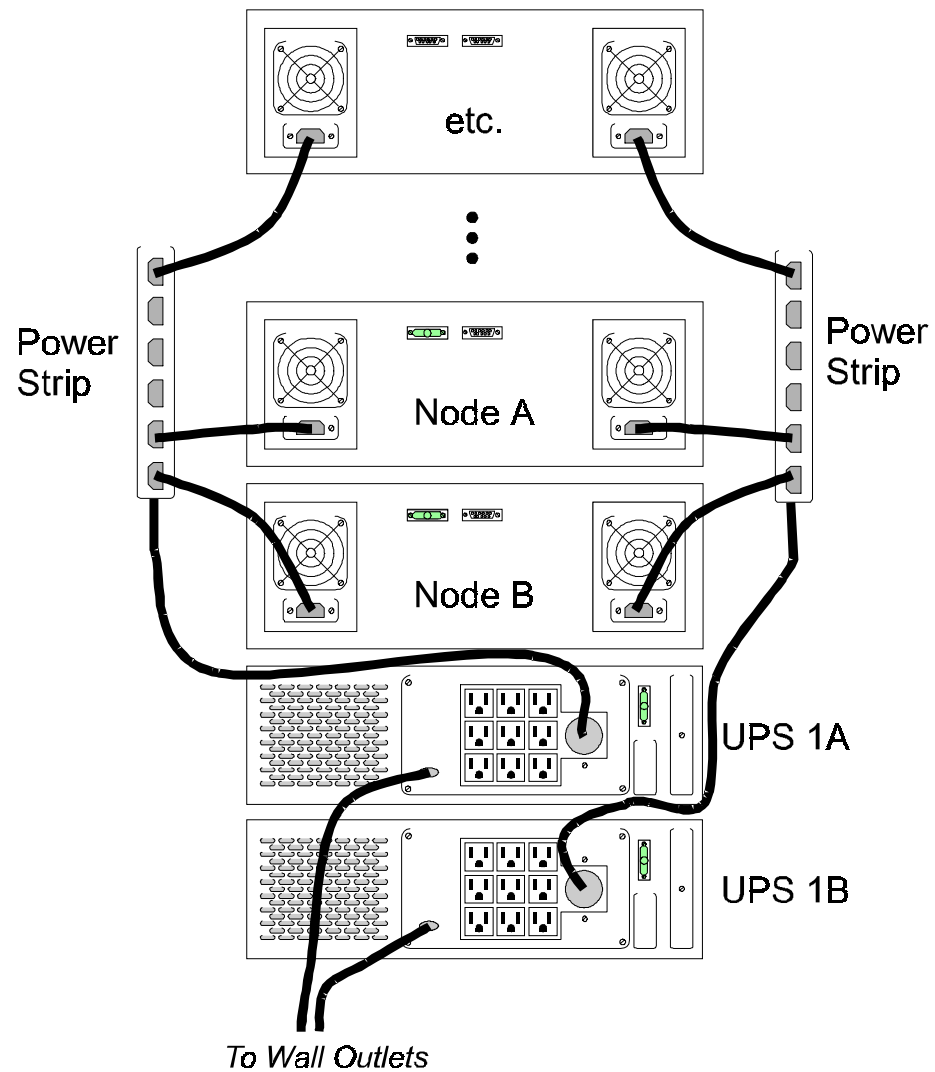
Two node tower cluster



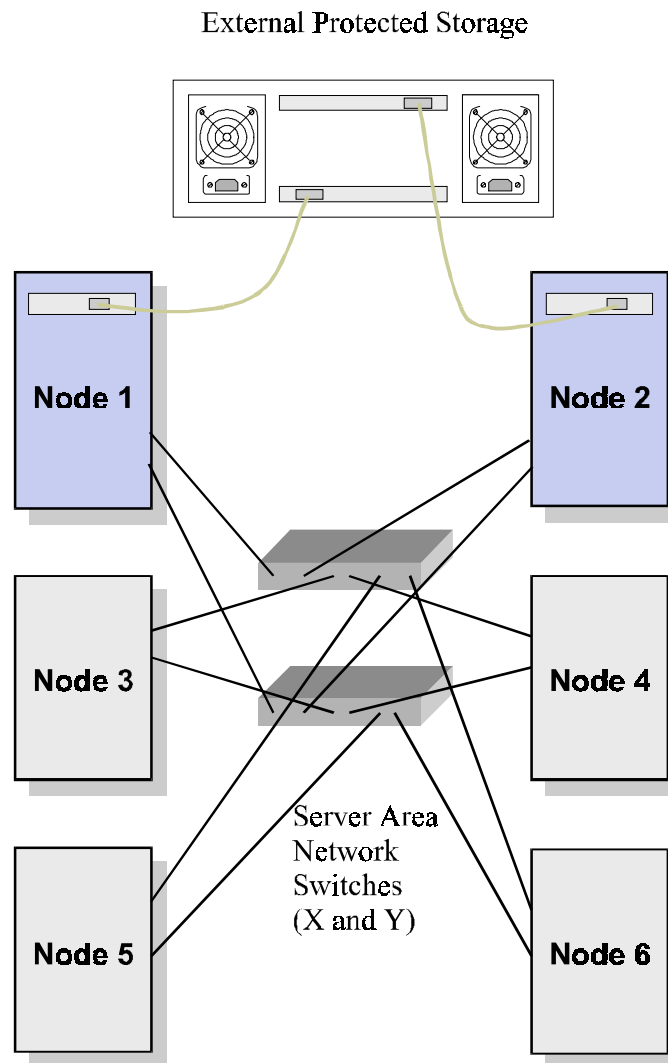
Rack Mounted Hardware



Powering Rack-Mounted Equipment



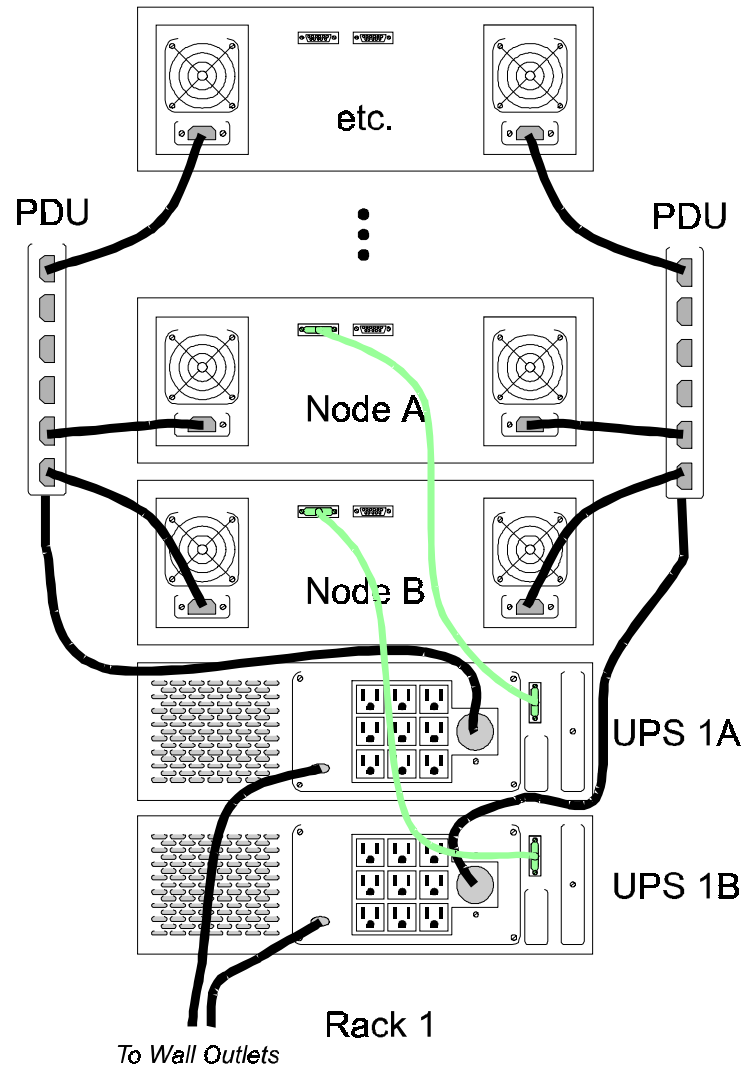
Centrally-Located Hubs



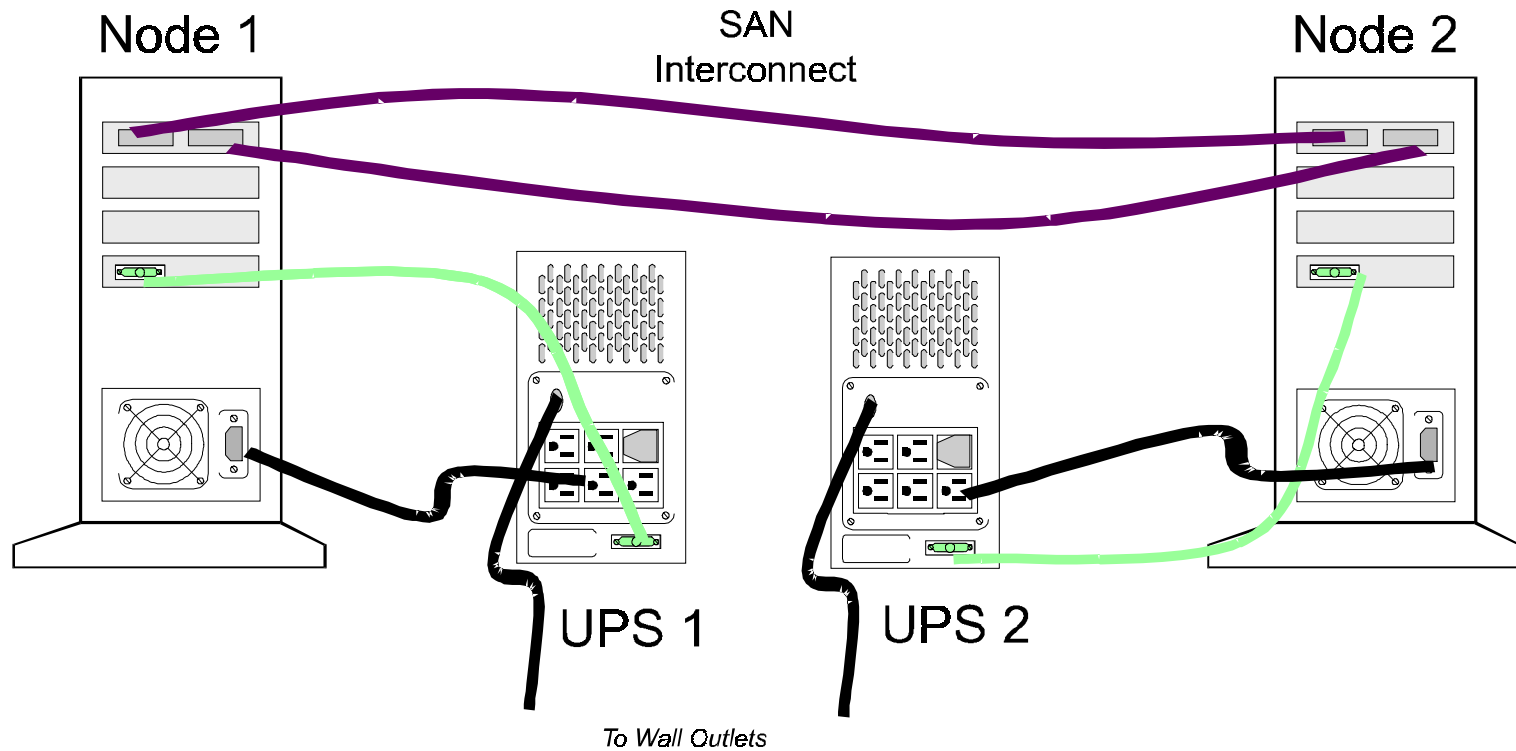
Assembling Cluster Hardware

- High-level Overview
- Detailed Procedure
- Lab

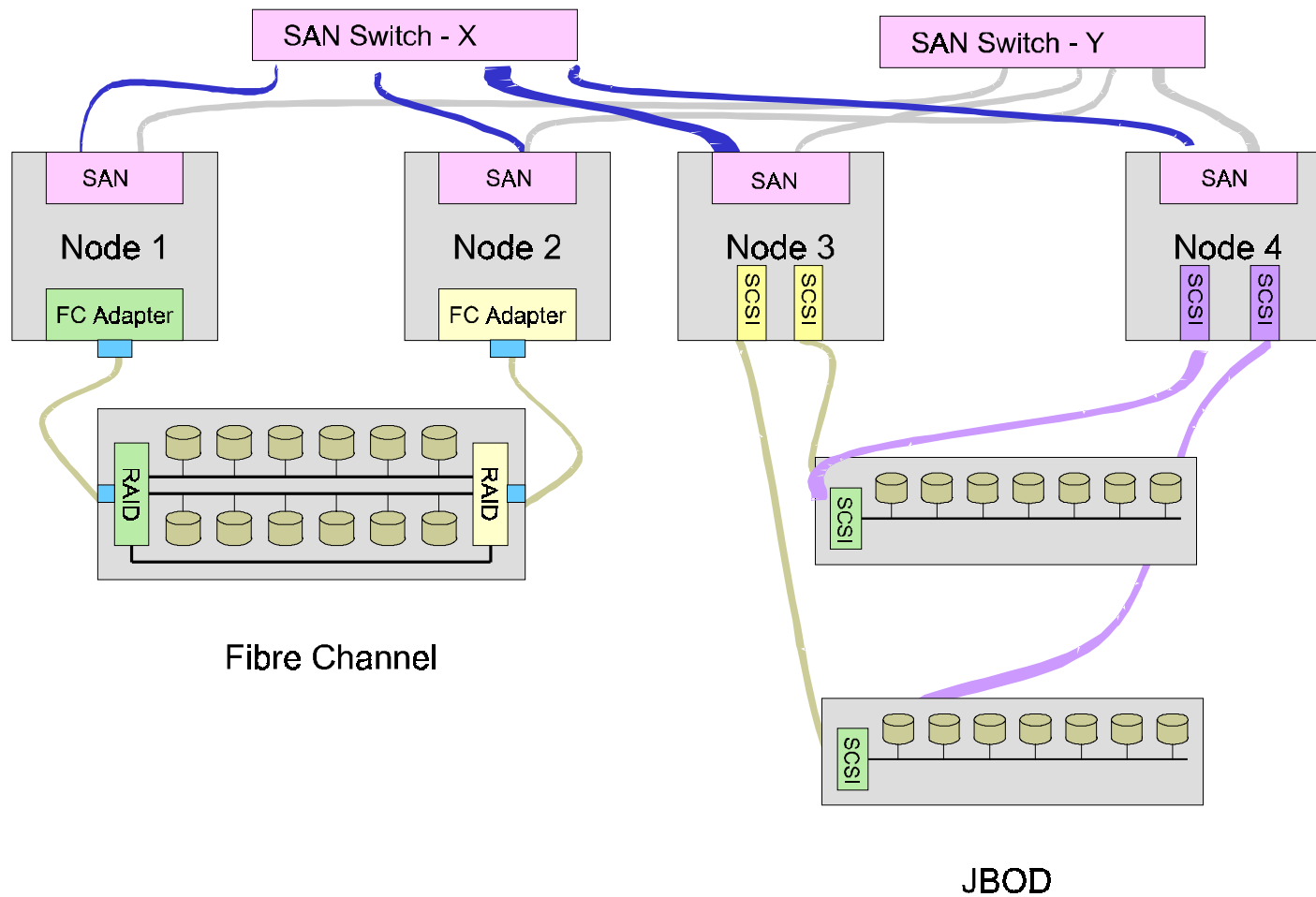
UPSes in Rack Configuration



UPSes in Tower Configuration



Multiple Shared Storage Types



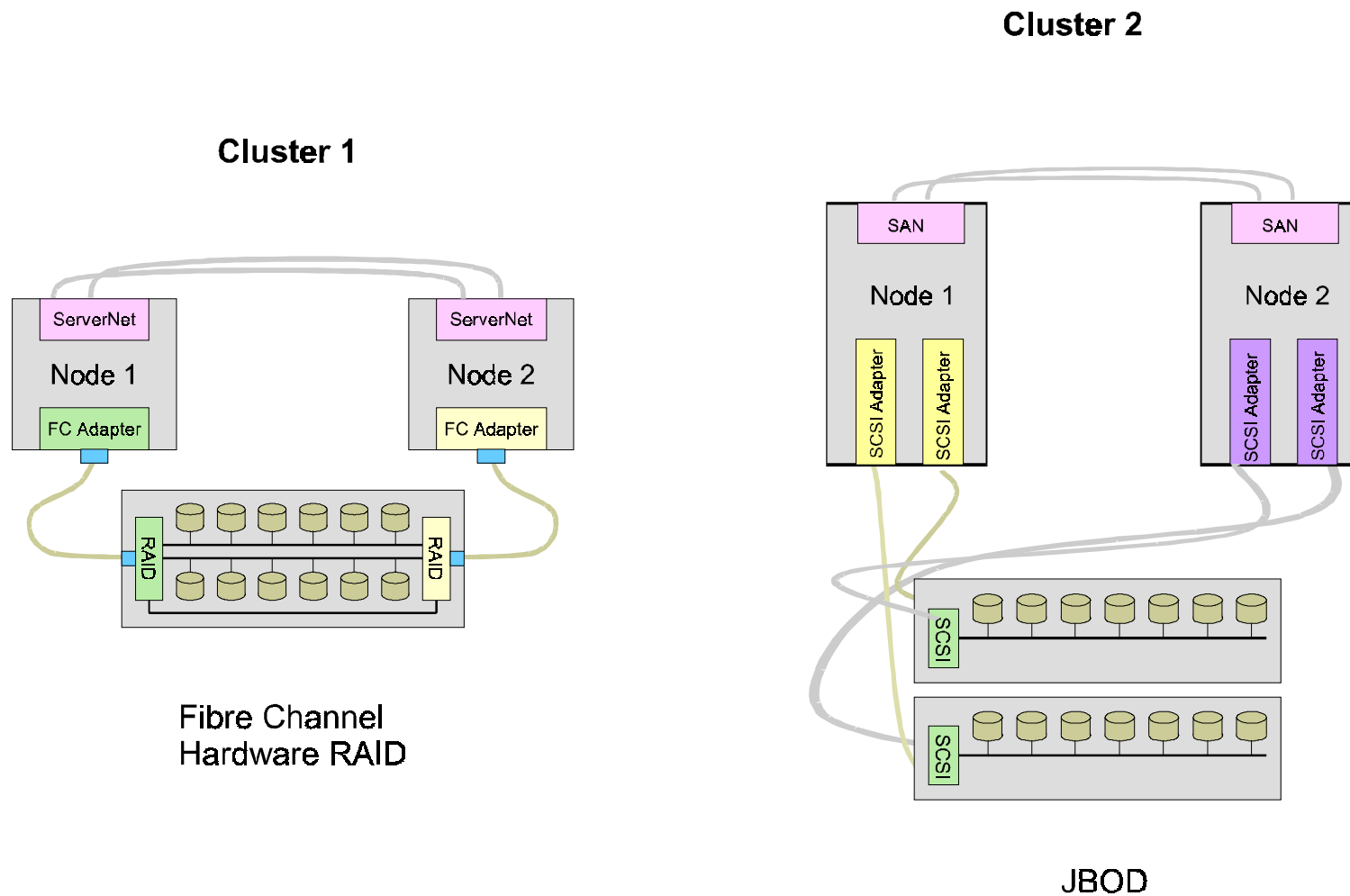
Compaq 8-port K/M/M Switch



Rack with Monitor at Top



Multiple Shared Storage Types



Installing UnixWare 7.1 Software

- Vendor-specific EFSes
- Licensing
- Cluster virtual host name
- Disks and Filesystems
- Package Selection

Installing NSC Software on Node 1

- Installation Overview
- NSC Installation Issues for Node 1
- Installation Lab

Cluster Commands

```
# cluster -v
```

```
1: UP
```

```
2: UP
```

```
# ifconfig -a
```

```
lo0: flags=4049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
```

```
inet 127.0.0.1 netmask ff000000
```

```
inet/perf: rcv size: 4096; send size: 8192; full-size frames: 1
```

```
inet/options: rfc1323
```

```
cvip0: flags=84041<UP,RUNNING,MULTICAST,CVIP> mtu 16384
```

```
inet 132.147.119.100 netmask ffffffff00
```

```
inet/perf: rcv size: 24576; send size: 24576; full-size frames: 1
```

```
inet/options: rfc1323
```

```
net1.2: flags=4043<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
```

```
inet 132.147.119.102 netmask ffffffff00 broadcast 132.147.119.255
```

```
inet/perf: rcv size: 24576; send size: 24576; full-size frames: 1
```

```
inet/options: rfc1323
```

```
ether 00:80:5f:bb:a9:6d
```

```
net0.1: flags=44043<UP,BROADCAST,RUNNING,MULTICAST,REMOTE> mtu 1500
```

```
inet 132.147.119.101 netmask ffffffff00 broadcast 132.147.119.255
```

```
inet/perf: rcv size: 24576; send size: 24576; full-size frames: 1
```

```
inet/options: rfc1323
```

```
ether 00:80:5f:bb:c0:c6
```

Cluster Commands (Cont'd)

vxprint

Disk group: rootdg

TY	NAME	ASSOC	KSTATE	LENGTH	PLOFFS	STATE	TUTIL0
PUTIL0							
dg	rootdg	rootdg	-	-	-	-	-
dm	nscrootdisk	n1c1b0t0d0s0	-	8373375	-	-	-
dm	rootdisk	n1c0b0t0d0s0	-	8321670	-	-	-
pl	rootvol-01	-	DISABLED	7839720	-	-	-
sd	rootdisk-02	rootvol-01	ENABLED	7839720	0	-	-
v	rootvol	root	ENABLED	7839720	-	ACTIVE	-
pl	nscrootvol-01	rootvol	ENABLED	7839720	-	ACTIVE	-
sd	nscrootdisk-01	nscrootvol-01	ENABLED	7839720	0	-	-
v	standvol	fsgen	ENABLED	96390	-	ACTIVE	-
pl	standvol-01	standvol	ENABLED	96390	-	ACTIVE	-
sd	rootdisk-03	standvol-01	ENABLED	96390	0	-	-
v	swapvol	swap	ENABLED	224910	-	ACTIVE	-
pl	swapvol-01	swapvol	ENABLED	224910	-	ACTIVE	-

mount

```
/ on /dev/root read/write/setuid on Mon Apr 17 01:34:23 2000
/dev/fd on /dev/fd read/write on Mon Apr 17 01:34:23 2000
/proc on /proc read/write on Mon Apr 17 01:34:23 2000
/stand/1 on /dev/stand.1 read/write on Mon Apr 17 01:34:24 2000
/system/processor on /processorfs read/write on Mon Apr 17 01:35:05 2000
/dev/_tcp on /dev/_tcp read/write on Mon Apr 17 01:35:05 2000
/stand/2 on /dev/stand.2 read/write on Mon Apr 17 01:38:59 2000
/stand/3 on /dev/stand.3 read/write on Mon Apr 17 01:39:27 2000
```

Installing NSC on Node 2

- Installation Overview
- NSC Installation Issues for Node 2
- Installation Lab